

Patent Abstracts of Japan

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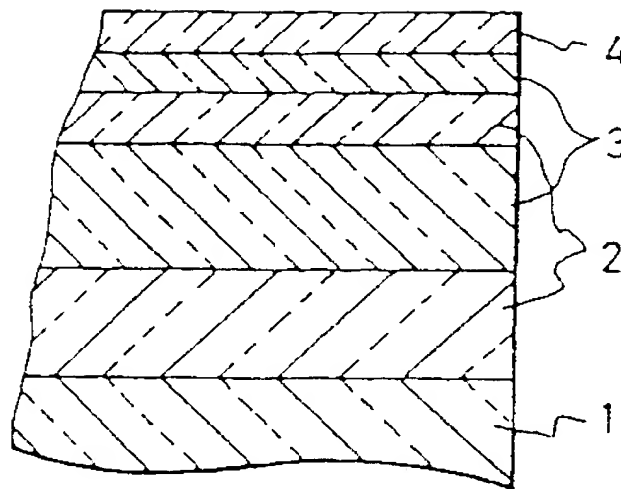
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APPLICANT : NIPPON SHEET GLASS CO LTD;

INVENTOR : KAWAGUCHI ATSUSHI;

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TITLE : HIGHLY TRANSMISSIVE
HEAT-REFLECTIVE GLASS



ABSTRACT : PURPOSE: To obtain the title glass imparted with both high transmittance and reflectance and improved in weatherability by laminating a glass plate with, as the first to fourth layers, respective specific materials at respective specified film thicknesses and by coating, as the outermost layer, another specific material at specified thickness.

CONSTITUTION: A glass plate 1 is coated with (A) TiO_2 layers consisting of high refractive index material and (B) SiO_2 layers consisting of low refractive index material, in the following manner: (1) the first layer: TiO_2 layer 16-20nm thick. (2) the second layer: SiO_2 168-212nm thick, (3) the third layer: TiO_2 layer 79-99nm thick, and (4) the fourth layer: SiO_2 layer 29-37nm thick. Furthermore, the resultant laminate is coated with, as the outermost layer, a SnO_2 layer 17-21nm thick. As the above-mentioned layers is thin as a whole, time required for the coating operation will be short, enabling the productivity in the coating processes to be improved.

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